

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P226376

Luminaire Tested: **ISW-AF-350-LED-E1-T3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-350-LED-E1-T3-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3779.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

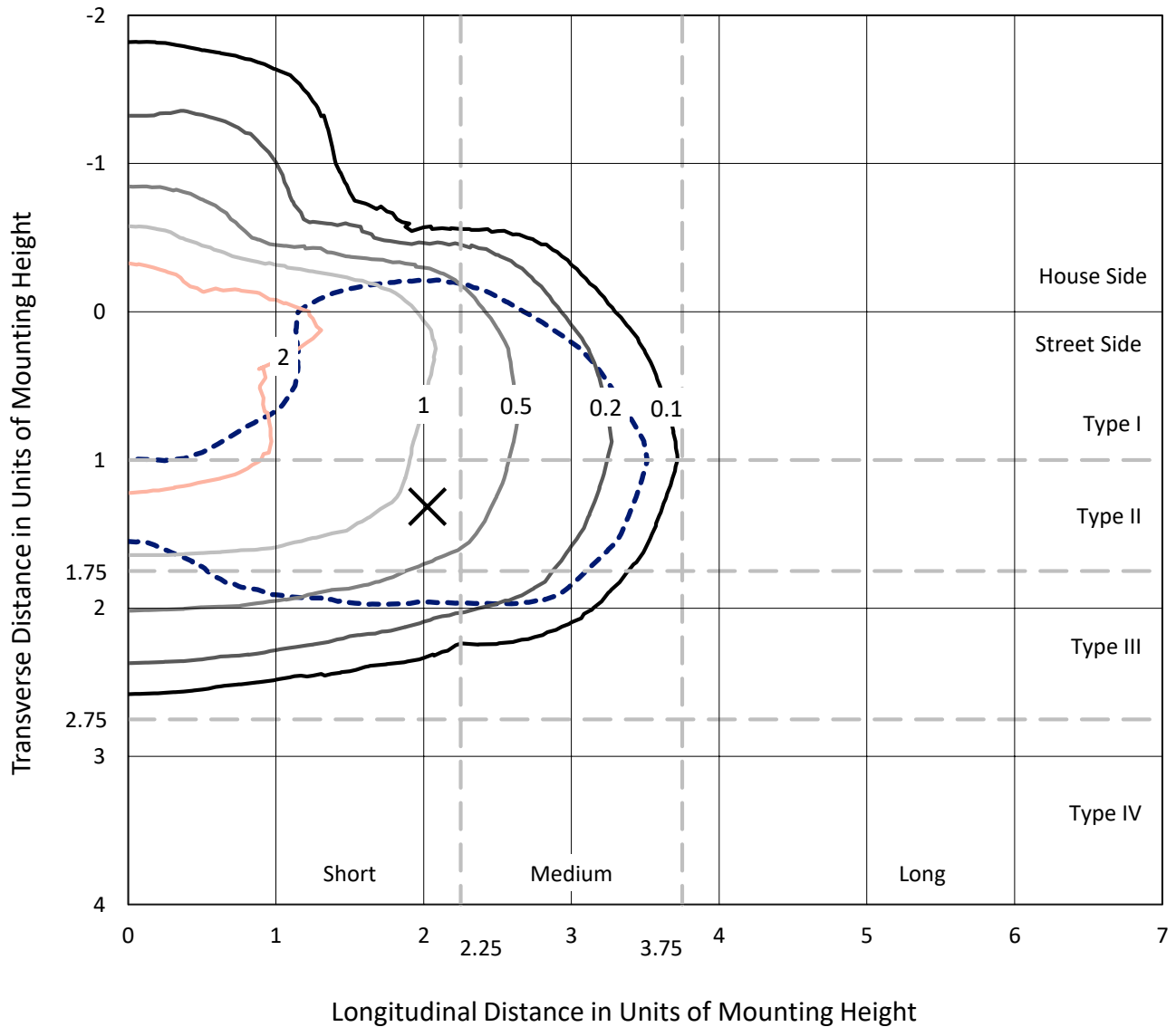


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

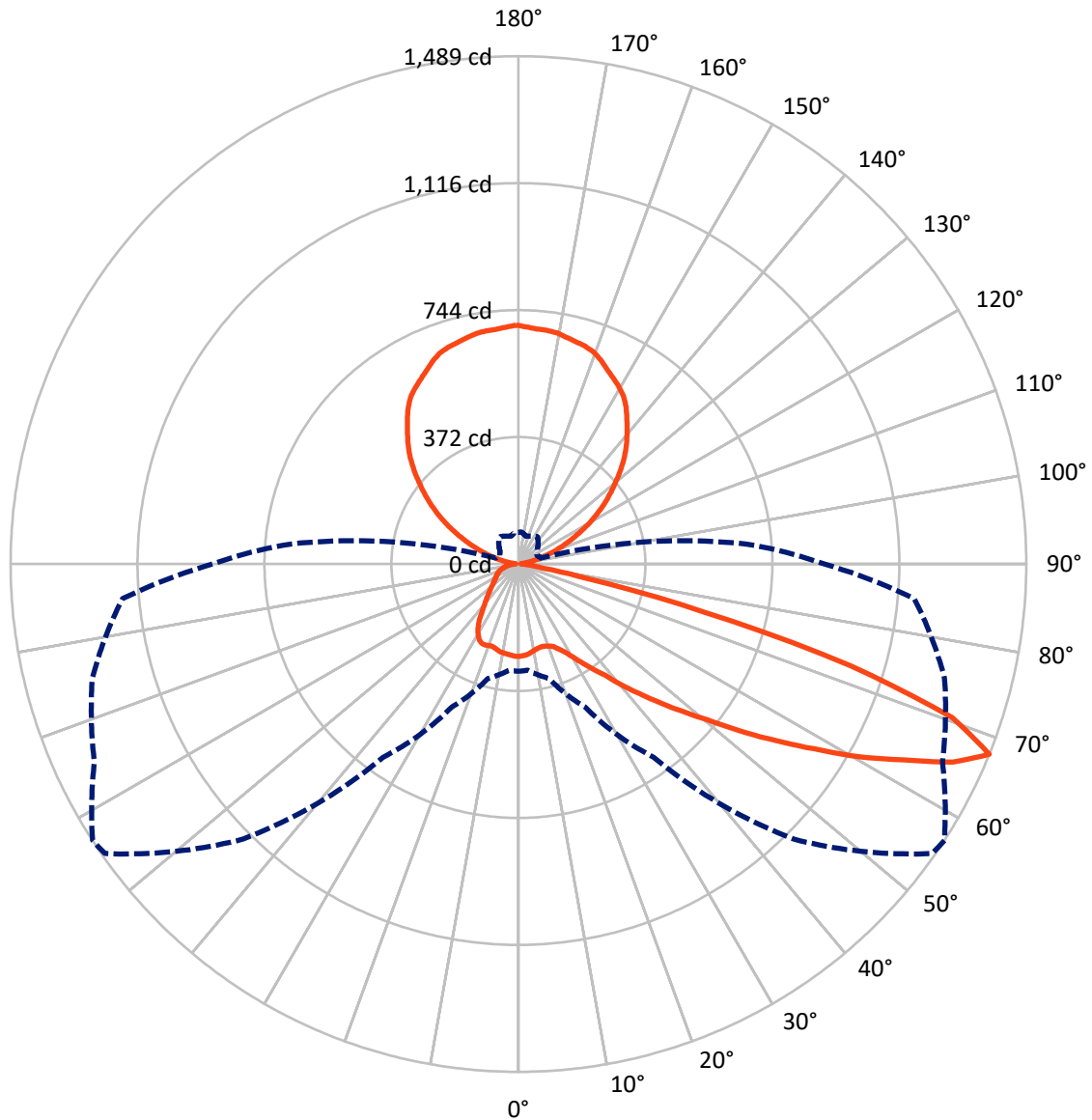


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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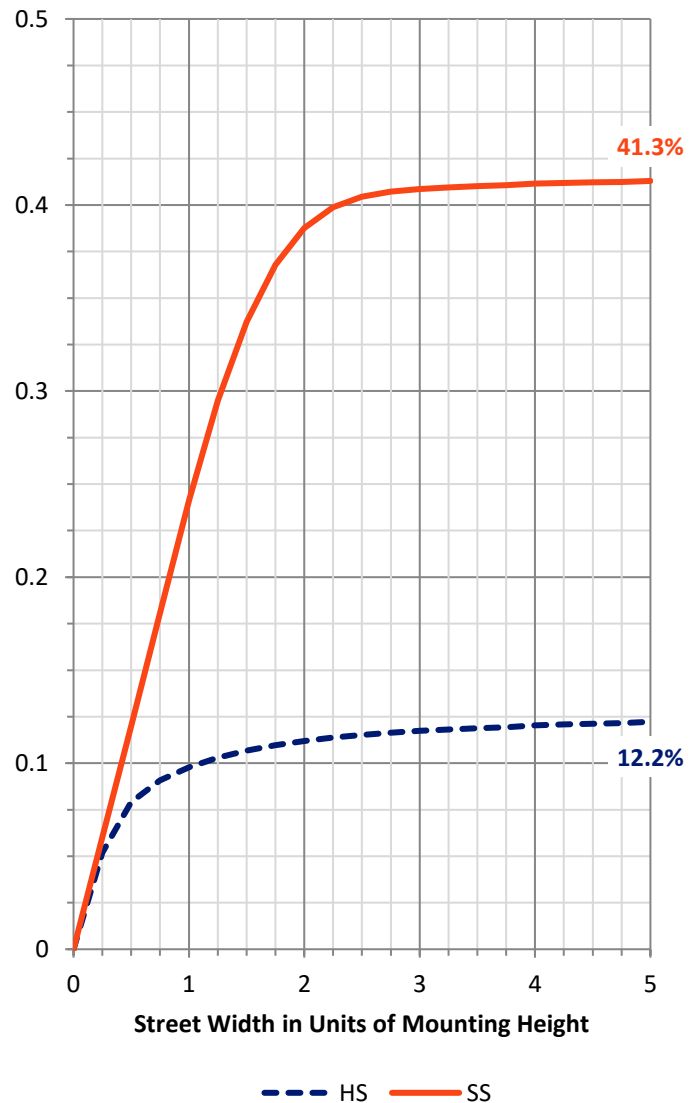
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.1	868.2	1344.3
	% Fixture	12.6	23.0	35.6
Street Side	Lumens	1567.9	867.7	2435.6
	% Fixture	41.5	23.0	64.4
Total	Lumens	2044.0	1735.9	3779.9
	% Fixture	54.1	45.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	0.7
10°-20°	72.8	1.9
20°-30°	125.3	3.3
30°-40°	203.7	5.4
40°-50°	328.6	8.7
50°-60°	489.9	13.0
60°-70°	551.7	14.6
70°-80°	212.7	5.6
80°-90°	34.0	0.9
90°-100°	10.0	0.3
100°-110°	57.4	1.5
110°-120°	166.1	4.4
120°-130°	273.2	7.2
130°-140°	336.8	8.9
140°-150°	344.6	9.1
150°-160°	290.3	7.7
160°-170°	191.2	5.1
170°-180°	66.3	1.8
0°-90°	2044.0	54.1
0°-180°	3779.9	100.0



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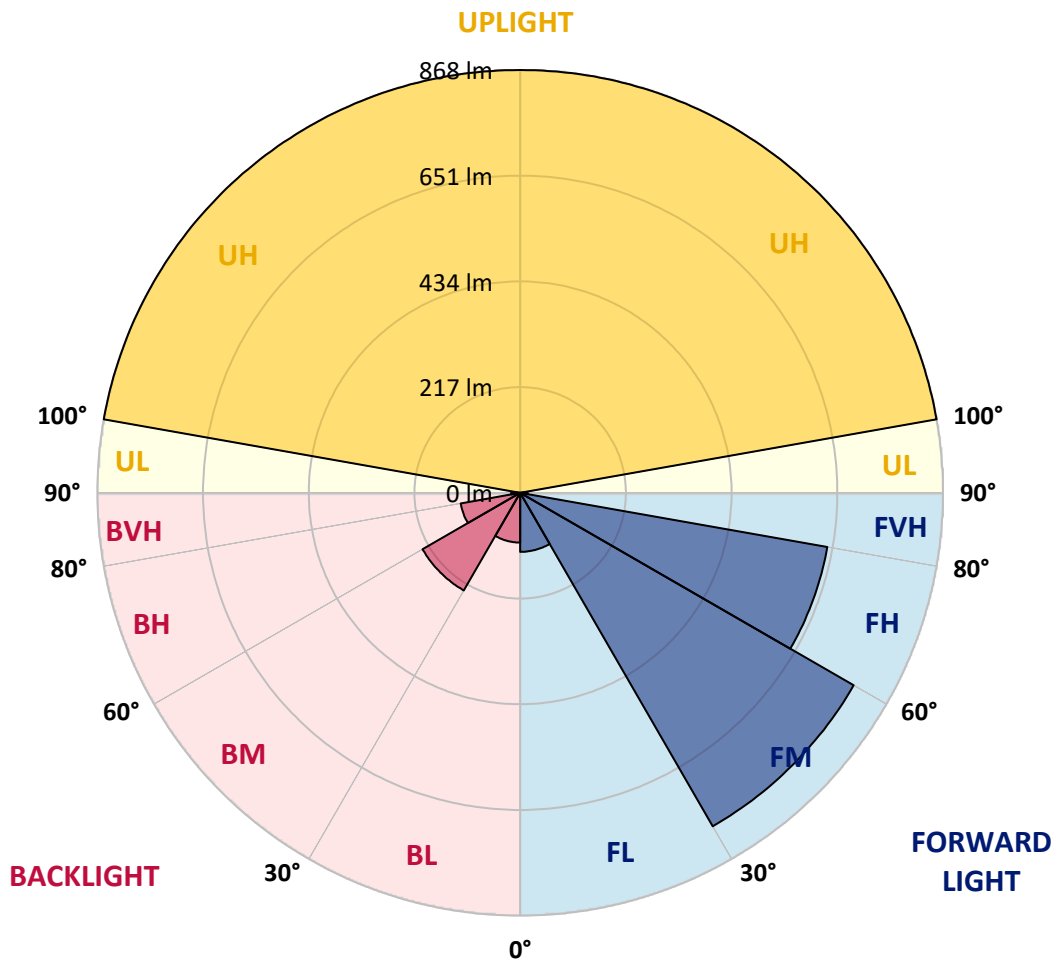
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.2	3.2			
FM	(30°-60°)	790.7	20.9			
FH	(60°-80°)	640.3	16.9			G0/660
FVH	(80°-90°)	15.6	0.4			G1/100
BL	(0°-30°)	102.2	2.7	B0/110		
BM	(30°-60°)	231.5	6.1	B1/1000		
BH	(60°-80°)	124.1	3.3	B1/500		G1/500
BVH	(80°-90°)	18.3	0.5			G1/100
UL	(90°-100°)	10.0	0.3		U2/50	
UH	(100°-180°)	868.2	23.0		U4/1000	

BUG Rating: B1-U5-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8
2.5°	268.8	269.4	269.9	269.6	269.6	269.6	269.6	269.6	269.9	269.9	269.4
5°	264.3	264.6	264.9	265.5	266.1	266.7	267.0	267.0	267.3	267.0	266.4
7.5°	257.8	258.1	259.3	259.3	259.9	261.1	261.7	262.2	263.1	263.1	262.8
10°	255.7	255.7	255.7	254.8	255.4	255.7	256.6	256.6	259.0	260.2	260.8
12.5°	258.1	257.8	257.8	255.4	253.4	252.5	253.4	253.7	256.3	258.1	259.3
15°	263.4	263.4	262.8	259.3	255.1	251.9	251.6	251.6	253.7	256.3	258.4
17.5°	275.9	277.0	272.9	267.3	260.5	255.1	253.1	252.8	254.3	256.3	258.4
20°	299.5	299.2	293.0	283.0	271.1	262.2	257.2	256.6	256.3	257.5	259.9
22.5°	327.7	326.5	319.1	306.4	290.1	273.8	264.0	262.8	260.5	261.4	264.6
25°	357.9	358.1	349.0	332.4	312.0	292.4	277.6	276.5	271.4	270.8	274.4
27.5°	388.0	391.9	379.5	363.8	339.5	316.1	294.5	292.7	288.3	286.8	290.4
30°	432.1	430.7	415.3	394.9	370.6	341.3	320.6	317.3	308.4	310.5	314.3
32.5°	469.4	472.7	458.8	434.5	402.5	371.8	347.8	346.0	337.4	339.8	345.1
35°	515.0	522.7	504.4	474.5	443.7	412.0	383.3	378.6	371.8	376.5	380.6
37.5°	567.1	571.0	556.8	518.3	486.9	453.8	421.2	413.8	406.4	416.2	423.6
40°	616.8	623.1	604.7	572.2	535.7	504.1	468.6	467.1	449.9	460.6	479.8
42.5°	690.5	698.2	668.9	631.1	598.2	560.0	526.3	518.3	499.6	514.7	547.0
45°	742.0	741.8	721.9	690.5	670.4	633.4	587.8	578.4	558.2	578.4	621.6
47.5°	760.7	765.1	758.3	754.5	747.4	720.4	653.3	644.4	625.4	655.3	695.3
50°	788.2	787.0	787.0	810.7	831.1	825.5	729.9	717.2	697.4	733.2	790.6
52.5°	795.3	784.7	801.2	846.5	911.4	916.1	819.0	811.9	788.2	823.2	893.9
55°	775.5	772.8	799.2	864.9	967.0	1000.7	922.3	912.5	885.9	915.8	1005.5
57.5°	731.1	737.9	780.2	861.0	1005.5	1075.3	1035.7	1021.8	983.6	1001.6	1116.2
60°	684.6	687.9	743.8	847.4	1015.8	1127.1	1154.7	1146.7	1081.3	1091.9	1198.2
62.5°	633.1	625.4	683.4	836.2	1004.3	1198.5	1270.1	1263.9	1186.6	1183.4	1256.5
65°	489.3	499.9	549.4	691.1	925.3	1254.1	1407.7	1399.7	1304.1	1258.8	1250.3
67.5°	314.3	312.3	347.2	462.0	691.4	1139.9	1479.7	1488.5	1371.3	1292.9	1164.4
70°	112.8	116.0	129.1	209.9	379.2	759.5	1304.4	1348.5	1321.9	1229.2	947.8
72.5°	68.7	68.7	78.1	94.4	153.6	360.2	929.7	1017.0	1078.9	1012.9	700.0
75°	53.9	53.6	56.8	65.1	82.9	118.1	494.3	561.8	692.0	699.7	398.4
77.5°	42.6	42.3	45.6	49.4	61.9	62.5	157.8	205.4	317.6	299.0	142.4
80°	34.3	34.0	36.4	37.6	45.3	43.2	63.3	73.4	111.3	97.7	61.6
82.5°	31.1	31.1	33.4	28.7	31.4	30.5	39.4	42.0	55.9	58.0	37.0
85°	20.1	20.7	31.4	27.8	20.4	18.6	25.2	26.6	34.9	38.2	18.1
87.5°	9.5	10.4	24.0	23.1	13.6	10.1	14.2	15.1	18.9	23.4	10.7
90°	6.8	6.8	10.0	11.3	9.8	8.8	9.4	9.5	11.1	12.0	10.0
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	6.0	6.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.2	8.0	7.0	7.0
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.6	10.0	9.0	8.0
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.4	26.0	23.0	19.0
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.4	47.0	42.0	39.0
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.6	70.0	65.0	61.0
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.8	94.0	90.0	87.0
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.2	121.0	119.0	116.0



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CATALOG NUMBER: ISW-AF-350-LED-E1-T3-8030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.4	150.0	149.0	147.0
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.6	182.0	179.0	177.0
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.8	215.0	210.0	208.0
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.8	250.0	245.0	243.0
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.8	283.0	278.0	276.0
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.4	315.0	310.0	310.0
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.2	346.0	346.0	345.0
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.8	381.0	381.0	379.0
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	412.0	416.0	414.0	414.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	444.0	448.0	447.0	450.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.4	475.0	476.0	481.0
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.4	502.0	504.0	509.0
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	528.2	533.0	533.0	534.0
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	557.2	562.0	561.0	558.0
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	581.0	585.0	586.0	583.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.6	600.0	603.0	606.0
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.6	614.0	618.0	623.0
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	627.0	631.0	636.0	638.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.8	648.0	650.0	650.0
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	659.2	664.0	661.0	660.0
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.8	671.0	670.0	668.0
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	673.0	677.0	680.0	678.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	679.2	684.0	688.0	688.0
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.6	689.0	694.0	696.0
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.6	692.0	694.0	696.0
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	691.0	695.0	696.0	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	695.0	699.0	701.0	698.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8
2.5°	270.2	269.6	269.9	270.2	270.5	271.4	271.7	271.7	271.7	271.4	272.0
5°	267.0	266.4	266.4	267.3	268.2	269.4	271.1	272.6	273.2	273.5	273.5
7.5°	263.4	262.8	263.1	264.6	266.1	267.0	268.8	269.6	272.0	272.0	272.6
10°	261.1	261.7	262.0	263.4	264.6	264.6	264.3	263.7	263.1	264.6	264.0
12.5°	259.6	260.5	260.2	262.0	262.5	260.2	256.6	251.9	251.3	251.9	252.5
15°	259.0	259.0	259.9	259.9	256.9	252.2	247.7	248.0	248.6	250.4	250.4
17.5°	259.0	259.3	259.9	257.8	252.5	248.3	247.4	246.6	243.3	242.4	241.5
20°	261.1	260.5	261.1	257.2	252.5	249.2	242.4	235.9	229.7	227.0	225.8
22.5°	266.1	265.2	264.9	261.1	255.1	244.2	230.9	220.8	210.2	206.6	205.4
25°	275.0	274.7	272.6	269.9	253.4	232.1	215.2	199.2	187.7	181.4	181.7
27.5°	290.7	290.7	289.5	277.6	244.2	217.0	194.2	177.9	166.1	160.1	159.2
30°	314.3	314.9	315.5	279.7	229.7	194.8	171.1	160.1	153.0	148.6	148.3
32.5°	343.6	346.9	343.1	277.3	209.9	167.8	153.0	149.2	145.6	142.7	142.4
35°	382.4	391.3	367.0	267.9	187.7	149.5	142.1	139.4	136.7	134.7	135.0
37.5°	434.5	443.1	382.4	251.9	159.2	139.1	135.9	131.7	127.6	123.1	122.5
40°	496.1	493.4	387.7	221.7	141.5	134.1	129.6	124.3	117.2	110.7	109.5
42.5°	557.6	539.9	383.3	184.4	129.9	129.6	123.4	116.6	109.5	103.9	103.9
45°	626.6	580.7	369.7	149.5	120.8	124.9	117.2	110.1	103.6	99.5	99.2
47.5°	691.7	618.9	347.2	124.6	111.6	118.7	112.5	106.0	99.7	96.2	95.3
50°	768.1	662.4	330.0	107.7	102.7	112.5	109.8	103.9	98.0	93.8	93.2
52.5°	845.3	704.8	317.0	96.2	94.7	107.7	108.6	105.1	98.9	90.9	90.3
55°	926.2	757.7	291.0	87.0	87.6	104.2	110.1	107.4	103.0	90.0	89.4
57.5°	993.9	806.6	245.4	80.8	82.0	101.5	110.7	105.7	100.6	90.6	89.7
60°	1046.9	840.0	180.0	75.8	77.0	98.6	108.0	99.5	92.9	90.6	89.1
62.5°	1063.2	841.2	119.6	69.9	73.1	93.5	103.3	96.2	88.5	89.7	89.1
65°	1022.4	796.8	85.5	64.2	69.9	87.6	101.2	92.9	86.4	91.2	90.6
67.5°	896.6	671.3	68.7	59.8	65.4	81.4	97.4	90.0	84.7	94.4	92.6
70°	698.5	481.6	58.3	55.4	60.7	75.5	92.1	86.7	82.3	91.8	89.4
72.5°	460.6	283.6	51.5	51.2	55.1	70.4	86.1	83.8	78.4	83.2	79.6
75°	240.3	131.4	44.7	46.5	48.8	66.0	80.8	78.4	72.5	74.3	73.1
77.5°	94.4	61.6	38.8	40.8	43.5	59.5	74.0	71.6	66.6	65.1	64.8
80°	51.8	41.4	32.3	34.9	36.7	53.6	66.9	64.2	58.9	58.0	57.1
82.5°	32.9	26.9	26.6	28.4	30.8	47.7	60.1	55.9	51.5	60.7	49.1
85°	15.4	16.0	18.9	21.3	24.0	40.6	52.4	48.0	43.5	42.3	37.6
87.5°	8.6	10.7	12.4	14.5	16.6	28.4	41.4	37.3	32.6	27.8	28.7
90°	9.1	9.1	12.6	12.3	10.6	11.1	28.4	26.4	23.3	12.7	10.0
92.5°	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0	5.0	4.0	4.0
95°	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0	5.0
97.5°	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0	8.0	7.0	7.0
100°	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0	9.0	8.0	8.0
102.5°	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0	13.0	11.0	11.0
105°	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0	27.0	22.0	21.0
107.5°	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0	49.0	42.0	41.0
110°	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	74.0	68.0	66.0



REPORT NUMBER: P226376

CATALOG NUMBER: ISW-AF-350-LED-E1-T3-8030-ULG

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	106.0	99.0	99.0
115°	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	147.0	139.0	140.0
117.5°	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	189.0	184.0	184.0
120°	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	226.0	223.0	225.0
122.5°	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	261.0	260.0	263.0
125°	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	296.0	294.0	298.0
127.5°	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	329.0	329.0	330.0
130°	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	362.0	361.0	363.0
132.5°	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	393.0	394.0	396.0
135°	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	426.0	426.0	429.0
137.5°	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	459.0	457.0	460.0
140°	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	487.0	485.0	488.0
142.5°	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	517.0	515.0	518.0
145°	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	544.0	546.0	550.0
147.5°	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	571.0	572.0	575.0
150°	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	593.0	592.0	595.0
152.5°	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	608.0	608.0	611.0
155°	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	625.0	625.0	629.0
157.5°	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	643.0	643.0	646.0
160°	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	659.0	660.0	663.0
162.5°	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	669.0	669.0	673.0
165°	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	676.0	678.0	681.0
167.5°	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	684.0	687.0	690.0
170°	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	692.0	695.0	698.0
172.5°	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	695.0	697.0	699.0
175°	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	697.0	698.0	700.0
177.5°	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	700.0	705.0	707.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0

(END OF REPORT)